BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at Virupakshapura, Maramma Temple in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 30.00 Lakhs

Job Code: 009-22-000007

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri. Subba Reddy K.V, No. 106/B, Aswathnagara, RMV 2nd Stage, Bangalore - 560094.

Work order No: BBMP/EE/BTP/WO/26/2022-23 Dated: 25-04-2022.

Measurements Recarded on : 15/06/22

Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	For Drain Desilting								
	2nd Main Road Virupakshapura N/S								
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	7.20			0.45	0.45	1.46	
	S/S	1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	7.20			0.45	0.45	1.46	
	Vijaya Store main Road								
	E/S	1	15.00			0.45	0.45	3.04	
		1	13.50			0.45	0.45	2.73	
		1	15.00			0.45	0.45	3.04	
		1	13.20			0.45	0.45	2.67	
		1	15.00			0.45	0.45	3.04	
		1	13.00			0.45	0.45	2.63	
		1	15.00			0.45	0.45	3.04	
		1	13.30			0.45	0.45	2.69	
	S/S								
		1	15.00			0.45	0.45	3.04	
		1	13.50			0.45	0.45	2.73	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	10.00			0.45	0.45	2.03	
	Thulasi Enclave								
	N/S	1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	8.50			0.45	0.45	1.72	

Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	S/S								
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	8.50			0.45	0.45	1.72	
	5th Main Road Dhanalakshmi layout N/S								
	E/S	1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	9.10			0.45	0.45	1.84	
	W/S	1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	9.10			0.45	0.45	1.84	
	5th Main Road Dhanalakshmi layout S/S								
	E/S	1	15.20			0.45	0.45	3.08	
	Berm Cutting								
	2nd Main Road Virupakshapura N/S								
		1	15.00			0.85	0.15	1.91	
		1	15.00			0.95	0.20	2.85	
		1	7.20			0.80	0.15	0.86	
	S/S	1	15.00			0.80	0.25	3.00	
		1	15.00			0.75	0.20	2.25	
		1	15.00			0.80	0.30	3.60	
		1	7.20			0.90	0.25	1.62	
	Vijaya Store main Road								
	E/S	1	15.00			0.85	0.25	3.19	
		1	13.50			0.90	0.20	2.43	
		1	15.00			0.50	0.15	1.13	
		1	13.20			0.65	0.20	1.72	
		1	15.00			0.40	0.15	0.90	
		1	13.00			0.85	0.25	2.76	
		1	15.00			0.90	0.20	2.70	
		1	13.30			0.80	0.20	2.13	
	S/S								
		1	15.00			0.65	0.25	2.44	
		1	13.50			0.80	0.25	2.70	
		1	15.00			7.50	0.20	22.50	
		1	15.00			0.90	0.20	2.70	
		1	15.00			0.85	0.15	1.91	
		1	15.00			0.80	0.20	2.40	
		1	15.00			0.70	0.20	2.10	
		1	15.00			0.95	0.15	2.14	
		1	10.00			0.80	0.25	2.00	
	Thulasi Enclave								
	N/S	1	15.00			0.85	0.15	1.91	
		1	15.00			0.95	0.20	2.85	
		1	15.00			0.80	0.25	3.00	
		1	15.00			0.75	0.15	1.69	
		1	15.00			0.85	0.10	1.28	
		1	8.50			0.65	0.15	0.83	
	S/S								
		1	15.00			0.75	0.15	1.69	
		1	15.00			0.80	0.20	2.40	
		1	15.00			0.90	0.25	3.38	
		1	15.00			0.80	0.20	2.40	
		1	15.00			0.75	0.15	1.69	
		1	15.00			0.80	0.15	1.80	
		1	8.50			0.90	0.20	1.53	

Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	5th Main Road Dhanalakshmi layout N/S								
	E/S	1	15.00			0.80	0.20	2.40	
		1	15.00			0.75	0.15	1.69	
		1	9.10			0.85	0.30	2.32	
	W/S	1	15.00			0.80	0.25	3.00	
		1	15.00			0.80	0.20	2.40	
		1	9.10			0.95	0.15	1.30	
	5th Main Road Dhanalakshmi layout S/S								
	E/S	1	15.20			0.75	0.25	2.85	
	Culverts								
	2nd Main Road Virupakshapura	1	7.20			1.80	1.10	14.26	
	KVS Layout Main Road	1	4.90			1.80	1.10	9.70	
	5th Main Road Dhanalakshmi Layout	1	4.90			1.80	1.10	9.70	
			Total Qty =					**272.76**	
			Qty Limited to Tender Qty =					**271.62**	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	16/06/22							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)								Sqm
	For Drain								
	2nd Main Road Virupakshapura N/S								
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	7.20				1.35	9.72	
	S/S	1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	7.20				1.35	9.72	
	Thulasi Enclave								
	N/S	1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	8.50				1.35	11.48	
	S/S								
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	8.50				1.35	11.48	
	5th Main Road Dhanalakshmi layout N/S								
	E/S	1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	9.10				1.35	12.29	
	W/S	1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	9.10				1.35	12.29	
	5th Main Road Dhanalakshmi layout S/S								
	E/S	1	15.20				1.35	20.52	
			Total Qty =					431.73	
			Qty Limited to Tender Qty =					429.30	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	18/06/22							
4	Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications								Cum
	Culverts								
	2nd Main Road Virupakshapura	1	7.20			1.80	0.15	1.94	
	KVS Layout Main Road	1	4.90			1.80	0.15	1.32	
	5th Main Road Dhanalakshmi Layout	1	4.90			1.80	0.15	1.32	
			Total Qty =					**4.59**	
			Qty Limited to Tender Qty =					**4.05**	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	02/07/22							
10	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.								Sqm
	Dhanalakshmi Layout 5th Main Road								
	Sampige Main Road to Dead End N/S	1	12.70	3.80	4.20	4.00		50.80	
		1	15.00	3.20	4.20	3.70		55.50	
		1	13.40	4.20	4.20	4.20		56.28	
	Sampige Main Road to Dead End S/S	1	13.50	4.50	5.00	4.75		64.13	
		1	18.70	4.60	5.10	4.85		90.70	
		1	14.70	4.30	3.80	4.05		59.54	
			Total Qty =					**376.94**	
			Qty Limited to Tender Qty =					**357.75**	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	04/07/22							
11	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								Cum
	Dhanalakshmi Layout 5th Main Road								
	Sampige Main Road to Dead End N/S	1	12.70	3.80	4.20	4.00	0.20	10.16	
		1	15.00	3.20	4.20	3.70	0.20	11.10	
		1	13.40	4.20	4.20	4.20	0.20	11.26	
	Sampige Main Road to Dead End S/S	1	13.50	4.50	5.00	4.75	0.20	12.83	
		1	18.70	4.60	5.10	4.85	0.25	22.67	
		1	14.70	4.30	3.80	4.05	0.25	14.88	
			Total Qty =					**82.90**	
			Qty Limited to Tender Qty =					**82.28**	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	07/07/22							
12	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								Sqm
	Dhanalakshmi Layout 5th Main Road								
	Sampige Main Road to Dead End N/S	1	12.70	3.80	4.20	4.00		50.80	
		1	15.00	3.20	4.20	3.70		55.50	
		1	13.40	4.20	4.20	4.20		56.28	
	Sampige Main Road to Dead End S/S	1	13.50	4.50	5.00	4.75		64.13	
		1	18.70	4.60	5.10	4.85		90.70	
		1	14.70	4.30	3.80	4.05		59.54	
			Total Qty =					**376.94**	
			Qty Limited to Tender Qty =					**357.75**	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :	07/07/22							
13	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen**								Cum
	Dhanalakshmi Layout 5th Main Road								
	Sampige Main Road to Dead End N/S	1	12.70	3.80	4.20	4.00	0.050	2.54	
		1	15.00	3.20	4.20	3.70	0.050	2.78	
		1	13.40	4.20	4.20	4.20	0.050	2.81	
	Sampige Main Road to Dead End S/S	1	13.50	4.50	5.00	4.75	0.050	3.21	
		1	18.70	4.60	5.10	4.85	0.050	4.53	
		1	14.70	4.30	3.80	4.05	0.050	2.98	
			Total Qty =					**18.85**	
			Qty Limited to Tender Qty =					**17.89**	

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Sl No.	Description	No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
14	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.								Sqm
	Dhanalakshmi Layout 5th Main Road								
	Sampige Main Road to Dead End N/S	1	12.70	3.80	4.20	4.00		50.80	
		1	15.00	3.20	4.20	3.70		55.50	
		1	13.40	4.20	4.20	4.20		56.28	
	Sampige Main Road to Dead End S/S	1	13.50	4.50	5.00	4.75		64.13	
		1	18.70	4.60	5.10	4.85		90.70	
		1	14.70	4.30	3.80	4.05		59.54	
	2nd Main Road Virupakshapura								
		1	15.00	5.20	4.90	5.05		75.75	
		1	15.00	4.90	5.00	4.95		74.25	
		1	15.00	5.00	6.50	5.75		86.25	
		1	4.60	6.50	6.80	6.65		30.59	
	1st Main Road Virupakshapura								
		1	15.00	5.50	5.60	5.55		83.25	
		1	15.00	5.60	4.60	5.10		76.50	
		1	15.00	4.60	5.10	4.85		72.75	
		1	15.00	5.10	5.20	5.15		77.25	
	Thulasi Enclave								
	Vijaya Store Road to Dead End	1	15.00	5.80	5.10	5.45		81.75	
		1	15.00	5.10	5.20	5.15		77.25	
		1	15.00	5.20	4.80	5.00		75.00	
		1	15.00	4.80	5.50	5.15		77.25	
		1	15.00	5.50	5.40	5.45		81.75	
		1	15.00	5.40	5.00	5.20		78.00	
		1	9.50	5.00	5.80	5.40		51.30	
	Deduct Chambers	-5	3.14			0.90		-14.13	
		-4	1.00			0.70		-2.80	
			Total Qty =					**1458.90**	
			Qty Limited to Tender Qty =					**1431.00**	

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